

No 11 / 2 March 29<sup>th</sup>  
by Bryant

Boston 20 Dec 1840

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BOTANICAL  
GARDEN.

My dear Sir

When I had the pleasure of seeing you  
here you were kind enough to say that you could procure for  
me some of the minerals of your State, particularly those of  
Bergen Co, although it is a liberty I am unwilling to take of  
reminding you, yet being this winter engaged in mineralogical  
chiefly crystallographical pursuits, they would be of much service  
to me, I trust therefore you will excuse my so doing - Could you  
also put me in the way of procuring through Mr Hall or any  
other person some of the minerals from Russia particularly Carbonates  
of lime (crystallized) phosphates of lime if possible with termination  
Zinc or others - I only desire small well defined specimens  
the large sized so much prized by others, would be only broken by me  
to extract the best crystals - I should be glad either to purchase  
at moderate prices or exchange for others - I do not know  
whether you have been informed that Dr C T Jackson has found Tin  
in considerable quantity at Jackson Village New Hampshire - I have  
hitherto doubted its existence in N. Am<sup>a</sup> never having met with  
any one who could authentically state having seen specimens  
I have some of it both massive & crystallized - He has also  
found a mineral evidently, now containing a large proportion of

From the J. Brooke Collection

Given by A. M. VAIL.

Glucina - the former is the beautiful form the plants I have  
those I have seen at his house are however <sup>which</sup> clear as glass  
its colour is a light greyish green with a bright luteous appearance  
it is from Unity W. Hampshire - You also mentioned having  
duplicate of Nuttall's nemostylis which you could furnish  
me with - My Gelasine asuea from Buenos Ayres will be  
in flower this spring and I should like much to compare it  
with nemostylis - I thought it near Tigridia, particularly the  
seed vessel Mr Herbert says it is nearer nemostylis although  
~~the~~ he has never seen the dried specimen Mr Nuttall told me  
the only one in Europe was in Paris - I will carefully dry a specimen  
of Gelasine for you if you desire it - I have put seeds through  
Mr Eschschman a specimen from Mr Sullivan, of Erysimum  
Arkansanum - Nuttall - it very much resembles E. Peroffskianum  
of Fischer & Meyer a plant from Caboul of which I have a very  
imperfect dried specimen but en revanche two dozen young  
growing plants most of which will be put out in the open ground  
in spring - from my above specimen of E. Arkansanum I  
extracted about a dozen ripe seeds which are consigned to the earth  
& I trust to have them both growing together so that a comparison  
will be easy - If you wish any dried specimens from  
our conservatory I shall be happy to prepare them for you.  
Most sincerely Yours  
J. Eschschman





for optical purposes - but it was cut at right angles and not parallel to the axis - I have found small transparent ones from Chesterfield but never more than  $\frac{1}{8}$  of an inch thick they are all split by the immense pressure which has acted on the mass should I find any I will share them with you with pleasure.

My opinion of Jackson's Chlorophyllite is that it is Dichroite. I have seen some of it quite blue, but the great difficulty is that it is mixed with other matter mechanically - Whitney who originally analysed it who is now gone to study under Berzelius spent much time on it & always found a ~~very~~ minute portion of phosphate of alumina in it, but I tried to find it extremely difficult to separate it mechanically from the ~~whole~~ <sup>loose</sup> Loshen substance with which it is mixed. ~~See~~ the crystallisation <sup>however</sup> is in such perfect hexahedral prisms that I do not see how it can be called compressed. I believe I told you I had found the Tin at Chesterfield originally discovered by Mohr in a specimen sent to him I only found 5 or 6 minute ~~flat~~ obtuse octahedrons one bright enough for measurement - a paper from me was read on it at the Geological meeting here last April - One crystal I gave to Dr Hitchcock who in return presented me with a piece of Tin ore he found at Loshen, so that I have now Tin from 3 localities in the up - one I gave to Jackson & one to Alliman - Have you heard that ~~distimony~~ has been discovered at Carmel in Maine. I have one small specimen when I get more I will send you some if you wish, I believe it is in quantity enough for working; the consumption of this metal is very large in the up of course it is now all imported - I have lately read a paper



of Minerals from Sweden Norway. it contained a few specimens of White, Uftotantalite, Carbonate of Lanthanum, fluoride of Cerium, Cerine - Several other specimens from that quartz, I have already divided with Mr Hayes but I have no doubt I can find some smaller pieces for you if you ~~want~~ have them not - also Polymignite & Pyrochlore - Do you know anything of Microlite except what has been in Silliman - I do not understand how Shepard is so wise as to say that he has proved it to be Carbonate of lime & in the next page to admit the probability of the lime being an accidental ingredient - I think I never read such a schoolboy production as his, full of Errors from beginning to end - I did not know anything of him, but I learn unanimously that here not the least authority is conceded to any thing emanating from him.

I have one very fine Pyrochlore from Sweden with modifications in the angles & edges, it is detached and weighs 6 grains I have another full as large from the Urals Mountains & the largest of pyrochlore I have found from Chesterfield weighs about 5 grains - Do you know that singular mineral Vermiculite from Milbury which when exposed to the blowpipe or even before the flame of a candle expands into hexahedra<sup>micaceous</sup> vermicular lengths with all manner of writhings & contortions - There is a mineral called I think Hausmannite which expands in the same way but in a fan shaped form I cannot immediately call to mind its locality & I am writing at the Countess House without my books - If you do not know it I can send you a piece - we have lately recd some very fine apophyllite from Nova Scotia, but they were nearly all purchased here immediately on their arrival. If you have not seen them I think I can get a piece the form is different from the Bergen apophyllite.



